

## Carson City, Nevada

**Project Name:** OU4 Phase 1 - Yerington Mine Evaporation Ponds

**Project Number:** 136742

Soil Boring: ☒ Monitoring Well: ☐ Piezometer: ☐



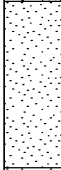


Boring/Well Name: OU4-UEP-10

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<b>Boring Location:</b> OU4 Unlined Evaporation Ponds		<b>Northing:</b> 1552840.31		<b>Easting:</b> 324241.66	
<b>Drilling Contractor:</b> WDC		<b>Top of PVC Elevation:</b>			
		<b>Ground Surface Elevation:</b> 4352.51 feet amsl			
<b>Drilling Equipment:</b> Geoprobe		<b>Date Started:</b> 10-12-08		<b>Date Finished:</b> 10-12-08	
<b>Drilling Method:</b> Direct-Push		<b>Completed Depth:</b> 25 ft bgs		<b>Water Depth:</b> 19 ft bgs	
<b>Sampling Method:</b> Continuous Core		<b>Driller:</b> Rick Smedley		<b>WELL CONSTRUCTION</b>	
<b>Well Seal:</b> N/A		<b>Borehole Diameter:</b> 2"			
<b>Logged By:</b> P. Bassett		<b>Drilling Fluid:</b> N/A		<b>Type and Diameter of Well Casing:</b> N/A	
		<b>Slot Size:</b> N/A		<b>Filter Material:</b> Cement grout	

Depth (ft)	Elevation (famsl)	USCS Group Symbol	Material Description	Sample Type I Name	Sample Type I Location	Sample Type II Name	Sample Type II Location	Lithology	Remarks
		ML	<b>SILT (Pond Sediments) (0 - 2)</b> Yellow, moist.						<p>Description of drilled cuttings based on ASTM Method D-2488 (the visual-manual procedure), grain-size determinations and nomenclature based on the Unified Soil Classification System.</p> <p>Horizontal Survey data is expressed in the Nevada State Plane system, Nevada West zone, in feet.</p> <p>Sharp contacts indicated by solid lines, gradational contacts indicated by dashed line.</p> <p>All depths are below land surface unless stated otherwise.</p> <p>Type 1 Samples are representative of geochemical and geotechnical soil samples as well as groundwater samples.</p> <p>Type 2 Samples are representative of meteoric water mobility soil samples.</p>
	4350	SM	<b>Silty SAND (Native Soil) (2 - 5)</b>  Sample: <u>OU4- UEP-10A-SC</u> from 3-5 feet.  Sample: <u>OU4- UEP-10A-MW</u> from 3-15 feet. Composite sample taken from 2 boring holes (step-outs).	OU4- UEP-10A-SC					
5		ML	<b>SILT / sandy SILT (5 - 7)</b> Firm.						
	4345	CH	<b>Fat CLAY (7 - 9)</b>  Sample: <u>OU4- UEP-10A-SG</u> from 7-9 feet.	OU4- UEP-10A-SG					
		ML	<b>SILT / sandy SILT (9 - 13)</b>  Sample: OU4- UEP-10A-MW from 9-15 feet. Composite sample from 2 boring holes (step-outs) approximately 6 inches apart.		OU4- UEP-10A-MW				
10		SP	<b>SAND (13 - 15)</b> Fine-grained sand and poor- to moderately-graded.						

**BORING LOG**Project Name: OU4 Phase 1 - Yerington Mine Evaporation PondsProject Number: 136742Soil Boring: ☒Monitoring Well: ☐Piezometer: ☐Boring/Well Name: OU4-UEP-10Sheet 2 of 2

Depth (ft)	Elevation (famsl)	USCS Group Symbol	Material Description	Sample Type I Name	Sample Type I Location	Sample Type II Name	Sample Type II Location	Lithology	Remarks
		CL	<b>Sandy lean CLAY (15 - 17)</b>  Sample: <u>OU4-UEP-10B-SG</u> from 15-17 feet.	OU4-UEP-10B-SG					
	4335	SM	<b>Silty SAND (17 - 20)</b> Becomes saturated at 19 feet.  Sample: <u>OU4-UEP-10B-SC</u> from 17-20 feet.	OU4-UEP-10B-SC					
	20	SP	<b>SAND (20 - 22)</b> Loose, medium- to coarse-grained and poorly graded.						
	4330	SP	<b>SAND (22 - 25)</b> Dense, fine-grained sand.  Sample: <u>OU4-UEP-10-GW</u> from 23 to 25 feet. Groundwater grab sample from hydropunch screen using bailer.	OU4-UEP-10-GW					
	25	ML	<b>Sandy SILT (25 - 30)</b> Stiff. Too stiff for water sample.						
	4325								
	30		Bottom of Borehole at 25 feet below ground surface.						
	4320								